

## Recombinant Human GRN, His-tagged

**Cat. No.** GRN-26404TH    **Lot. No.** (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant full length Human Granulin with an N-terminal His-tag, 10 kDa.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>ProteinLength</b>	67 amino acids
<b>Description</b>	<p>Granulins are a family of secreted, glycosylated peptides that are cleaved from a single precursor protein with 7.5 repeats of a highly conserved 12-cysteine granulin/epithelin motif. The 88 kDa precursor protein, progranulin, is also called proepithelin and PC cell-derived growth factor. Cleavage of the signal peptide produces mature granulin which can be further cleaved into a variety of active, 6 kDa peptides. These smaller cleavage products are named granulin A, granulin B, granulin C, etc. Epithelins 1 and 2 are synonymous with granulins A and B, respectively. Both the peptides and intact granulin protein regulate cell growth. However, different members of the granulin protein family may act as inhibitors, stimulators, or have dual actions on cell growth. Granulin family members are important in normal development, wound healing, and tumorigenesis.</p>
<b>Conjugation</b>	HIS
<b>Molecular Weight</b>	10.000kDa inclusive of tags
<b>Tissue specificity</b>	In myelogenous leukemic cell lines of promonocytic, promyelocytic, and proerythroid

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lineage, in fibroblasts, and very strongly in epithelial cell lines. Present in inflammatory cells and bone marrow. Highest levels in kidney.

<b>Form</b>	Liquid
<b>Purity</b>	>90% by SDS-PAGE
<b>Storage buffer</b>	Preservative: None Constituents: 55mM Tris HCl, 150mM Sodium chloride, pH 8.2
<b>Storage</b>	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
<b>Sequence Similarities</b>	Belongs to the granulin family.

## GENE INFORMATION

<b>Gene Name</b>	<a href="#">GRN granulin [ Homo sapiens ]</a>
<b>Official Symbol</b>	<a href="#">GRN</a>
<b>Synonyms</b>	GRN; granulin; granulins; PCDGF; PGRN; progranulin;
<b>Gene ID</b>	<a href="#">2896</a>
<b>mRNA Refseq</b>	<a href="#">NM_002087</a>
<b>Protein Refseq</b>	<a href="#">NP_002078</a>
<b>MIM</b>	<a href="#">138945</a>
<b>Uniprot ID</b>	<a href="#">P28799</a>

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<b>Chromosome Location</b>	17q21.32
<b>Function</b>	cytokine activity; growth factor activity;

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